624



## Sequence listings

## SEQ ID NO 1:

rAsp f6 DNA sequence length: 624

CAATACACGC TCCCACCCCT CCCCTACCCC TACGATGCCC TCCAACCCTA 50

5 CATCTCCCAA CAGATCATGG AGCTGCACCA CAAAAAGCAC CATCAAACCT 100

ACGTCAATGG CCTGAATGCC GCACTCGAGG CGCAGAAGAA AGCGGCGGAA 150

GCCAACGACG TCCCCAAGCT CGTCTCCGTG CAGCAAGCGA TCAAATTCAA 200

CGGCGGGGGG CACATCAACC ATTCCCTCTT CTGGAAGAAT CTGGCCCCGG 250

AGAAATCCGG GGGTGGCAAG ATCGATCAGG CACCGGTCCT CAAAGCAGCC 300

ATCGAGCAGC GTTGGGGATC CTTCGATAAG TTCAAGGATG CTTTCAACAC 350

GACCCTGCTG GGCATTCAGG GCAGCGGATG GGGTTGGTTA GTGACCGACG 400

GACCCAAGGG AAAGCTAGAC ATTACCACAA CCCACGACCA GGATCCGGTG 450

ACCGGGGCGG CCCCCGTCTT TGGGGTGGAT ATGTGGGAGC ATGCTTACTA 500

CCTTCAGTAC TTGAACGACA AAGCCTCGTA TGCCAAGGGC ATCTGGAACG 550

TGATCAACTG GGCTGAAGCG GAGAATCGGT ACATAGCGGG TGACAAGGGT 600

## SEQ ID NO 2:

rAsp f6 Amino acid sequence Length: 207

GGACACCCAT TCATGAAGCT GTGA

QYTLPPLPYP YDALQPYISQ QIMELHHKKH HQTYVNGLNA ALEAQKKAAE 50
ANDVPKLVSV QQAIKFNGGG HINHSLFWKN LAREKSGGGK IDQAPVLKAA 100
IEQRWGSFDK FKDAFNTTLL GIQGSGWGWL VTDGPKGKLD ITTTHDQDPV 150
TGAAPVFGVD MWEHAYYLQY LNDKASYAKG IWNVINWAEA ENRYIAGDKG 200
GHPFMKL

25

## SEQ ID NO 3:

rAsp f4 DNA sequence Length: 861

GGCGAGGTCG GCGACACTGT CTACGCTACT ATAAACGGTG TCCTCGTCTC 50

GTGGATCAAC GAGTGGTCCG GCGAGGCTAA GACCTCCGAC GCTCCCGTCT 100

30 CTCAGGCTAC TCCCGTCAGC AACGCTGTGG CTGCCGCCGC CGCCGCTTCT 150

ACTCCGGAGC CCAGCTCTTC CCACTCCGAC AGTTCTTCAT CCTCCGGCGT 200

CTCCGCCGAC TGGACCAACA CCCCTGCCGA AGGCGAGTAC TGCACTGACG 250

GCTTCGGTGG CAGGACCGAA CCCAGCGGCT CCGGTATCTT CTACAAGGGC 300

AACGTTGGTA AACCCTGGGG CAGCAACATC ATCGAGGTCT CCCCCGAGAA 350

CGCCAAGAAG TACAAGCACG TCGCTCAGTT TGTTGGCAGC GACACTGACC 400

CCTGGACCGT TGTCTTCTGG AACAAGATCG GCCCCGATGG TGGCCTTACT 450

	${\tt GGCTGGTACG}$	GTAACTCCGC	TCTGACCCTC	CACCTCGAGG	CCGGTGAGAC	500
	CAAGTACGTG	GCATTCGACG	AGAACTCCCA	GGGTGCCTGG	GGCGCCGCAA	550
	AGGGCGACGA	GCTGCCCAAG	GACCAGTTTG	GTGGGTACTC	TTGCACCTGG	600
	GGTGAGTTCG	ACTTTGACAG	CAAAATCAAC	CACGGCTGGT	CTGGCTGGGA	650
	CGTGTCCGCC	ATTCAGGCCG	AGAATGCCCA	CCATGAGGTC	CAGGGTATGA	700
	AGATCTGCAA	TCACGCCGGC	GAGCTCTGCT	CCATCATCTC	CCACGGTCTT	750
	TCCAAGGTCA	TTGACGCCTA	CACTGCTGAT	CTGGCCGGTG	TCGATGGCAT	800
٠	TGGTGGCAAG	GTCGTCCCTG	GCCCTACCCG	TCTGGTCGTC	AACCTCGACT	850
	ACAAGGAGTA	G		7		861
S	EQ ID NO 4:	1				
	rAsp f4 Ami	ino acid sec	quence Leng	gth: 286		
	GEVGDTVYAT	INGVLVSWIN	EWSGEAKTSD	APVSQATPVS	NAVAAAAAAS	50
	${\tt TPEPSSSHSD}$	sssssgvsaþ	WTNTPAEGEY	${\tt CTDGFGGRTE}$	PSGSGIFYKG	100
\	NVGKPWGSNI	IEVSPENAKK	YKHVAQFVGS	DTDPWTVVFW	NKIGPDGGLT	150
	GWYGNSALTL	HLEAGETKY	AFDENSQGAW	GAAKGDELPK	DQFGGYSCTW	200
	GEFDFDSKIN	HGWSGWDVSA	IQAENAHHEV	QGMKICNHAG	ELCSIISHGL	250
	SKVIDAYTAD	LAGVDGIGGK	VVPGPTRLVV	NLDYKE		286
			1			
SEQ ID NO 5						
	rAsp f8 DNA	A sequence	\Length: 33	36		
	ATGAAGTACC	TCGCAGCTTT	фстсстсстс	GCCCTTGCTG	GCAACACCTC	50
	CCCGTCCTCT	GAGGATGTCA	AGCCGTCCT	CTCTTCCGTT	GGCATTGATG	100
	CCGATGAGGA	GCGCCTGAAC	AAGCTCATTG	CTGAGCTCGA	GGGCAAGGAC	150
	CTCCAGGAGC	TCATTGCCGA	GGGTTCCACC	AAGCTCGCTT	CCGTTCCCTC	200
	CGGTGGTGCT	GCCGCCGCTG	стфствссвс	TGCCGGTGCC	GCTGCCGGTG	250
	GTGCTGCTGC	TCCTGCCGCT	AAGGAGAAGA	ATGAGGAGGA	GAAGGAGGAG	300
	TCCGACGAGG	ACATGGGCTT	CGGTCTCTTC	GACTAA		336
			1			
SEQ ID NO 6						
rAsp f8 amino acid sequence Length: 111						
MVVIARIII AIACAMCDCC EDVIVANICON CIDADEEDIN VITAELECVO FO						

LQELIAEGST KLASVPSGGA AAAAPAAAGA AAGGAAAPAA KEKNEEEKEE 100

SDEDMGFGLF D